ELSEVIER

Journal of Organometallic Chemistry 488 (1995) C23–C24

Journal of Organometallic Chemistry

Author Index of Volume 488

Abugideiri, F., 29
Al-Juaid, S.S., 155
Al-Nasr, A.A.K., 155
Albano, V.G., 133
Alper, H., 25
Amaratunga, S., 25
Aresta, M., 211
Ayoko, G.A., 155

Basoli, C., C20
Basolo, F., C1
Beringhelli, T., 39
Bianchini, C., 91
Bodensieck, U., 85
Botteghi, C., C20
Braun, T., 169
Busetto, L., 133

Cabras, M.A., C20
Carcelli, M., 55
Cariati, E., 109
Carlucci, L., 133
Carofiglio, T., 141
Cassani, M.C., 133
Cauzzi, D., 115
Cenini, S., 79
Chelucci, G., C20
Chernega, A.N., 73
Chiesi-Villa, A., 141
Chiusoli, G.P., 47
Costa, M., 47, 115

D'Alfonso, G., 39
Darensbourg, D.J., 99
De Felice, V., C13
Della Pergola, R., 199
Delledonne, D., C15
Demartin, F., 79
De Renzi, A., C13
Dias, F.S., 47
Dixneuf, P.H., C9
Drenth, W., 191

Eaborn, C., 155
Erker, G., 177

Farnetti, E., 91
Fioretto, S.D., 249
Floriani, C., 141

Ganis, P., 249
Garlaschelli, L., 199
Gazzola, G.L., 47
Grassi, M., 79
Graziani, M., 91
Green, M.L.H., 73
Grove, D.M., 191

Hamilton, A.H., 73
Hitchcock, P., 155
Hitchcock, P.B., 241
Hodge, A.J., 205

Ingham, S.L., 205

James, B.R., 161
Jenneskens, L.W., 191
Jiang, Q., 233
Joó, F., 99
Joshi, A.M., 161

Kakkar, A.K., 205
Kašpar, J., 91
Keogh, D.W., 29
Khan, M.S., 205
King, R.B., 63
Kochi, J.K., C4
Kraatz, H.-B., 29, 223
Kubas, G.J., C1
Kunicki, A.R., C11

Lanfranchi, M., 115
Lappert, M.F., 241
Lavastre, O., C9
Leoni, P., 39
Lewis, J., 205
Li, Y.W., 63
Lindeman, S.V., 9
Liu, D.-S., 241
Long, N.J., 205

MacFarlane, K.S., 161
Magnaghi, S., 79
Maitlis, P.M., C11
Manassero, M., 199
Mandai, T., 127
Marchetti, M., C20
Marzolini, G., 115
Masciocchi, N., 199
Matsuoka, S., 127
Mazza, P., 55
Milone, L., 1
Milstein, D., 223
Minoja, A.P., 39
Moiseev, I.I., 183
Monari, M., 133
Morise, X.M., 73

Nervi, C., 1
Newton, M.G., 63

Osella, D., 1

Paiaro, G., 249
Palmisano, G., 79
Pandolfo, L., 249
Panunzi, A., C13
Parker, D.G., 205
Pasquali, M., 39
Pearson, W., 29
Pelizzi, C., 55
Pelizzi, G., 55
Peruzzini, M., 91
Poli, R., 29
Predieri, G., 115
Psaro, R., 109

Quaranta, E., 211

Raithby, P.R., 205
Ravera, M., 1
Reibenspies, J.H., 99
Rheinwald, G., 85
Rivetti, F., C15
Rizzoli, C., 141
Roberto, D., 109
Romano, U., C15
Rosi, M., 141
Roth, A., 141
Rüegger, H., 233

Saito, S., 127
Sgamellotti, A., 141
Shen, J.K., C1
Smeets, W.J.J., 191
Spek, A.L., 191
Stafford, N.W., 99

Steinert, P., 169
Stoeckli-Evans, H., 85
Strähle, J., 15
Struchkov, Yu.T., 9

Temme, B., 177
Tesauro, D., C13
Tiripicchio, A., 115
Tollari, S., 79
Tsuji, J., 127
Tsujiguchi, Y., 127
Turner, M.L., C11

Ugo, R., 109

Vahrenkamp, H., 85
Valle, G., 249
Van de Kuil, L.A., 191
Van Koten, G., 191
Veldhuizen, Y.S.J., 191
Venanzi, L.M., 233
Veya, P.L., C4

Wang, Z.-Q., C11
Werner, H., 169

Zani, F., 55
Zanoni, R., 115
Zanotti, V., 133
Zwikker, J.W., 191

ELSEVIER

Journal of Organometallic Chemistry 488 (1995) C25–C32

Journal of Organometallic Chemistry

Subject Index of Volume 488

Absolute configuration
Determination of the absolute configurations of the epimers of the P-chiral phosphine $Ph_2PCH_2CH_2P^*Ph$(*L*-(−)-menthyl) by use of two-dimensional NMR spectroscopy in combination with a palladium(II) "reporter complex" (Q. Jiang, H. Rüegger and L.M. Venanzi), 233
Acetylide
Donor–acceptor-based vinylidene and σ-acetylide complexes of ruthenium and osmium (A.J. Hodge, S.L. Ingham, A.K. Kakkar, M.S. Khan, J. Lewis, N.J. Long, D.G. Parker and P.R. Raithby), 205
Aldehyde hydrazones
Synthesis, X-ray structure and reactivity of cyclopalladated complexes of hydrazones of 1*H*-indole-3-carboxaldehyde (S. Tollari, G. Palmisano, F. Demartin, M. Grassi, S. Magnaghi and S. Cenini), 79
Alkenyl complexes
Synthesis of methacrylate monomers from alkynes and arene-alkenylruthenium(II) catalyst (O. Lavastre and P.H. Dixneuf), C9
Alkoxide
The reactions of tridentate cationic palladium(II) complexes with olefins and nucleophiles (H.-B. Kraatz and D. Milstein), 223
Alkylidyne
Synthesis of dinuclear iron and ruthenium aminoalkylidene complexes and the molecular structure of the novel *cis*-$[Ru_2(CO)_2(Cp)_2\{\mu\text{-}C(CN)N(Me)Bz\}_2]$(Cp = η-C_5H_5; Bz = CH_2Ph) (V.G. Albano, L. Busetto, L. Carlucci, M.C. Cassani, M. Monari and V. Zanotti), 133
Allenylidene
Vinylidene transition metal complexes. XXXIV. The preparation and structure of neutral vinylidene and allenylidene ruthenium(II) compounds of the half-sandwich type containing $^iPr_2PCH_2CO_2Me$ as supporting ligand (T. Braun, P. Steinert and H. Werner), 169
Allyl
New mono- and di-phosphido-bridged Pd^I dimers. Formation of tertiary dialkyl(allyl) phosphines from an allyl complex with a secondary phosphine (P. Leoni, M. Pasquali, T. Beringhelli, G. D'Alfonso and A.P. Minoja), 39
Aminoalkylidene
Synthesis of dinuclear iron and ruthenium aminoalkylidene complexes and the molecular structure of the novel *cis*-$[Ru_2(CO)_2(Cp)_2\{\mu\text{-}C(CN)N(Me)Bz\}_2]$(Cp = η-C_5H_5; Bz = CH_2Ph) (V.G. Albano, L. Busetto, L. Carlucci, M.C. Cassani, M. Monari and V. Zanotti), 133
Anhydrous alkylammonium salts
Novel, CO_2-promoted synthesis of anhydrous alkylammonium tetraphenylborates: a study on their reactivity as intra- and inter-molecular proton-transfer agents (M. Aresta and E. Quaranta), 211
Arene complexes
Synthesis of methacrylate monomers from alkynes and arene-alkenylruthenium(II) catalyst (O. Lavastre and P.H. Dixneuf), C9
Azido complexes
Synthesis of cluster compounds by photolysis of azido complexes (J. Strähle), 15

Biphosphine
The reactions of tridentate cationic palladium(II) complexes with olefins and nucleophiles (H.-B. Kraatz and D. Milstein), 223
Boron
Dialkylaminophosphorus metal carbonyls. 12. Insertion of phosphorus, sulfur, and selenium into the $(^iPr_2NP)_2Fe_2(CO)_6$ unit and a novel product from the reaction of $(^iPr_2NP)_2COFe_2(CO)_6$ with $PhBCl_2$ (Y.W. Li, M.G. Newton and R.B. King), 63
Novel, CO_2-promoted synthesis of anhydrous alkylammonium tetraphenylborates: a study on their reactivity as intra- and inter-molecular proton-transfer agents (M. Aresta and E. Quaranta), 211
Oxidative η^2-iminoacyl formation by reaction of amidozirconocene complexes with tris(pentafluorophenyl)borane (B. Temme and G. Erker), 177
Bridged species
Electronic interactions in organometallic dimers. An electrochemical approach (D. Osella, L. Milone, C. Nervi and M. Ravera), 1

Carbon monoxide
Novel, CO_2-promoted synthesis of anhydrous alkylammonium tetraphenylborates: a study on their reactivity as intra- and inter-molecular proton-transfer agents (M. Aresta and E. Quaranta), 211
Carbonyl
Dialkylaminophosphorus metal carbonyls. 12. Insertion of phosphorus, sulfur, and selenium into the $(^iPr_2NP)_2Fe_2(CO)_6$ unit and a novel product from the reaction of $(^iPr_2NP)_2COFe_2(CO)_6$ with $PhBCl_2$ (Y.W. Li, M.G. Newton and R.B. King), 63
Reductive carbonylations reactions of primary phosphine mono-η-cyclopentadienyltungsten (V) compounds (M.L.H. Green, X.M. Morise, A.H. Hamilton and A.N. Chernega), 73
Ruthenium carbonyl complexes with polyfunctional phosphine ligands (U. Bodensieck, H. Vahrenkamp, G. Rheinwald and H. Stoeckli-Evans), 85

Carbonylation
Catalytic carbonylation of benzylic and allylic bromides by a rhodium zwitterionic complex under phase transfer catalysis conditions (S. Amaratunga and H. Alper), 25
Oxidative carbonylation of methanol to dimethyl carbonate (DMC): a new catalytic system (D. Delledonne, F. Rivetti and U. Romano), C15
Preparation of α-vinylidene-γ-lactones by palladium-catalyzed carbonylation of 5-hydroxy-2-alkynyl methyl carbonates under mild conditions (T. Mandai, Y. Tsujiguchi, S. Matsuoka, S. Saito and J. Tsuji), 127
Carbonyl clusters
Surface organometallic chemistry: the easy conversion of $[Ir_6(CO)_{16}]$ supported on silica into $[Ir_4(CO)_{12}]$ (D. Roberto, E. Cariati, R. Psaro and R. Ugo), 109
Carbonyls
Octahedral iridium carbonyl clusters. Synthesis, characterization and solid state structure of the nitrosyl cluster $[Ir_6(CO)_{11}(\mu\text{-}CO)_3NO]^-$ (R. Della Pergola, L. Garlaschelli, M. Manassero and N. Masciocchi), 199
Catalysis
A new cyclopentadiene and its use as a ligand for catalytically active rhodium complexes (M. Costa, F.S. Dias, G.P. Chiusoli and G.L. Gazzola), 47
Hydroformylation of some functionalized olefins catalyzed by rhodium(I) complexes with pydiphos and its *P*-oxide (C. Basoli, C. Botteghi, M.A. Cabras, G. Chelucci and M. Marchetti), C20
Kinetics and mechanism of H_2-hydrogenation of styrene catalyzed by $[RuCl(dppb)(\mu\text{-}Cl)]_2$ (dppb = 1,4-bis(diphenylphosphino)butane). Evidence for hydrogen transfer from a dinuclear molecular hydrogen species (A.M. Joshi, K.S. MacFarlane and B.R. James), 161
Oxidative carbonylation of methanol to dimethyl carbonate (DMC): a new catalytic system (D. Delledonne, F. Rivetti and U. Romano), C15
Charge-transfer salts
Structural and spectral characterization of novel charge-transfer salts of polyoxometalates and the cationic ferrocenyl donor (P.L. Veya and J.K. Kochi), C4
Chiral phosphine
Determination of the absolute configurations of the epimers of the P-chiral phosphine $Ph_2PCH_2CH_2P^*Ph$(*L*-(–)-menthyl) by use of two-dimensional NMR spectroscopy in combination with a palladium(II) "reporter complex" (Q. Jiang, H. Rüegger and L.M. Venanzi), 233
Chloride
Reductive carbonylations reactions of primary phosphine mono-η-cyclopentadienyltungsten (V) compounds (M.L.H. Green, X.M. Morise, A.H. Hamilton and A.N. Chernega), 73
Cluster
Octahedral iridium carbonyl clusters. Synthesis, characterization and solid state structure of the nitrosyl cluster $[Ir_6(CO)_{11}(\mu\text{-}CO)_3NO]^-$ (R. Della Pergola, L. Garlaschelli, M. Manassero and N. Masciocchi), 199
Cluster core geometry
Pd_4 Clusters: the sensitivity of the cluster metal core geometry to the surrounding ligands (I.I. Moiseev), 183
Cluster core rearrangement
Pd_4 Clusters: the sensitivity of the cluster metal core geometry to the surrounding ligands (I.I. Moiseev), 183
Clusters
Pd_4 Clusters: the sensitivity of the cluster metal core geometry to the surrounding ligands (I.I. Moiseev), 183
Synthesis of cluster compounds by photolysis of azido complexes (J. Strähle), 15
Cobalt
Electronic interactions in organometallic dimers. An electrochemical approach (D. Osella, L. Milone, C. Nervi and M. Ravera), 1
Oxidative carbonylation of methanol to dimethyl carbonate (DMC): a new catalytic system (D. Delledonne, F. Rivetti and U. Romano), C15
Coupling
Vinyl-plus-vinyl coupling in rhodium complexes: formation of $[(C_5Me_5)RhBr(\eta^3\text{-}syn\text{-}1\text{-methylallyl})]$ by reaction of $[(C_5Me_5)\text{-}RhBr_2(Me_2SO)]$ with vinylmagnesium bromide in homogeneous solution (Z.-Q. Wang, M.L. Turner, A.R. Kunicki and P.M. Maitlis), C11
Crystal structure
A novel class of hexanuclear titanoxanes: synthesis, structure and electronic configuration (T. Carofiglio, C. Floriani, A. Roth, A. Sgamellotti, M. Rosi, A. Chiesi-Villa and C. Rizzoli), 141
A novel enantiopure proline-based organonickel(III) halide monocation with a pentadentate C, N_2, O_2-bonded bis(*ortho*-chelating) aryldiamine ligand (L.A. Van de Kuil, Y.S.J. Veldhuizen, D.M. Grove, J.W. Zwikker, L.W. Jenneskens, W. Drenth, W.J.J. Smeets, A.L. Spek and G. Van Koten), 191
Anchoring rhodium(I) on benzoylthiourea-functionalized silica xerogels. Production of recyclable hydroformylation catalysts and the crystal structure of the model compound [Rh(cod)(Hbztu)Cl] (D. Cauzzi, M. Lanfranchi, G. Marzolini, G. Predieri, A. Tiripicchio, M. Costa and R. Zanoni), 115
Donor–acceptor-based vinylidene and σ-acetylide complexes of ruthenium and osmium (A.J. Hodge, S.L. Ingham, A.K. Kakkar, M.S. Khan, J. Lewis, N.J. Long, D.G. Parker and P.R. Raithby), 205
Instability of 15-electron Cp^*MoCl_2L (L = 2-electron donor) derivatives. X-ray structure of $Cp^*MoCl_2(PMe_2Ph)_2$ and $[Cp^*MoCl_2(PMe_2Ph)_2]AlCl_4$ (F. Abugideiri, D.W. Keogh, H.-B. Kraatz, W. Pearson and R. Poli), 29
Octahedral iridium carbonyl clusters. Synthesis, characterization and solid state structure of the nitrosyl cluster $[Ir_6(CO)_{11}(\mu\text{-}CO)_3NO]^-$ (R. Della Pergola, L. Garlaschelli, M. Manassero and N. Masciocchi), 199
Ruthenium carbonyl complexes with polyfunctional phosphine ligands (U. Bodensieck, H. Vahrenkamp, G. Rheinwald and H. Stoeckli-Evans), 85
Structures of polymetallaorganosiloxanolates — a novel class of organosilicon metal complexes (Yu.T. Struchkov and S.V. Lindeman), 9
Synthesis of cluster compounds by photolysis of azido complexes (J. Strähle), 15
The geometry of SiOCN and SiNCO linkages. The crystal structures of $(Me_3Si)_2(Ph_2MeSi)CSiMe_2OCN$ and $(PhMe_2Si)_3CSi\text{-}Me_2NCO$ (S.S. Al-Juaid, A.A.K. Al-Nasr, G.A. Ayoko, C. Eaborn and P. Hitchcock), 155
The reactions of tridentate cationic palladium(II) complexes with olefins and nucleophiles (H.-B. Kraatz and D. Milstein), 223
Transformation of the bis(trimethylsilyl)methyl into a 1,3-diaza-allyl ligand. Synthesis and crystal structures of $[\overbrace{K\{N(R)C(Ar)}\overbrace{NC}\text{-}(Ar)CHR\}(NCAr)]_2$ and $[\{UCl(\mu\text{-}Cl)(L)\overbrace{(NR)}\}_2][UCl_2(L)(L')]$ [R = $SiMe_3$; Ar = $C_6H_3Me_2$-2,5; L = $\overbrace{N(R)C(Ph)C(H)C(Ph)}NR$; L′ = $\overbrace{N(R)C(Ph)}\overbrace{NC(Ph)CHR}$] (P.B. Hitchcock, M.F. Lappert and D.-S. Liu), 241
Vinylidene transition metal complexes. XXXIV. The preparation and structure of neutral vinylidene and allenylidene ruthenium(II) compounds of the half-sandwich type containing

$^{i}Pr_2PCH_2CO_2Me$ as supporting ligand (T. Braun, P. Steinert and H. Werner), 169
Water-soluble organometallic compounds. 5. The regio-selective catalytic hydrogenation of unsaturated aldehydes to saturated aldehydes in an aqueous two-phase solvent system using 1,3,5-triaza-7-phosphaadamantane complexes of rhodium (D.J. Darensbourg, N.W. Stafford, F. Joó and J.H. Reibenspies), 99

Cyanate
The geometry of SiOCN and SiNCO linkages. The crystal structures of $(Me_3Si)_2(Ph_2MeSi)CSiMe_2OCN$ and $(PhMe_2Si)_3CSiMe_2NCO$ (S.S. Al-Juaid, A.A.K. Al-Nasr, G.A. Ayoko, C. Eaborn and P. Hitchcock), 155

Cyclization
A new cyclopentadiene and its use as a ligand for catalytically active rhodium complexes (M. Costa, F.S. Dias, G.P. Chiusoli and G.L. Gazzola), 47

1,5,9-Cyclododecatriene
Rhodium(III) complexes of (*EEE*)-1,5,9-Cyclododecatriene. Syntheses, structures and absolute configurations of derivatives of *catena*-poly-[μ-dichloro-(1,2,12-η)-1,5,8 cyclododecatrienyl-rhodium] (G. Paiaro, L. Pandolfo, P. Ganis, G. Valle and S.D. Fioretto), 249

Cyclopalladation
Synthesis, X-ray structure and reactivity of cyclopalladated complexes of hydrazones of 1*H*-indole-3-carboxaldehyde (S. Tollari, G. Palmisano, F. Demartin, M. Grassi, S. Magnaghi and S. Cenini), 79

Cyclopentadienyl
Instability of 15-electron Cp^*MoCl_2L (L = 2-electron donor) derivatives. X-ray structure of $Cp^*MoCl_2(PMe_2Ph)_2$ and $[Cp^*MoCl_2(PMe_2Ph)_2]AlCl_4$ (F. Abugideiri, D.W. Keogh, H.-B. Kraatz, W. Pearson and R. Poli), 29
Reductive carbonylations reactions of primary phosphine mono-η-cyclopentadienyltungsten (V) compounds (M.L.H. Green, X.M. Morise, A.H. Hamilton and A.N. Chernega), 73
Vinyl-plus-vinyl coupling in rhodium complexes: formation of $[(C_5Me_5)RhBr(\eta^3$-*syn*-1-methylallyl)] by reaction of $[(C_5Me_5)RhBr_2(Me_2SO)]$ with vinylmagnesium bromide in homogeneous solution (Z.-Q. Wang, M.L. Turner, A.R. Kunicki and P.M. Maitlis), C11

Cyclopentadienyl complexes
A new cyclopentadiene and its use as a ligand for catalytically active rhodium complexes (M. Costa, F.S. Dias, G.P. Chiusoli and G.L. Gazzola), 47

Diamine
A novel enantiopure proline-based organonickel(III) halide monocation with a pentadentate C, N_2, O_2-bonded bis(*ortho*-chelating) aryldiamine ligand (L.A. Van de Kuil, Y.S.J. Veldhuizen, D.M. Grove, J.W. Zwikker, L.W. Jenneskens, W. Drenth, W.J.J. Smeets, A.L. Spek and G. Van Koten), 191

1,3-Diaza-allylpotassium
Transformation of the bis(trimethylsilyl)methyl into a 1,3-diaza-allyl ligand. Synthesis and crystal structures of $[\overbrace{K\{N(R)C(Ar)N}C\text{-}(Ar)CHR\}(NCAr)]_2$ and $[\{UCl(\mu\text{-}Cl)(L)(NR)\}_2][UCl_2(L)(L')]_2$[R = $SiMe_3$; Ar = $C_6H_3Me_2$-2,5; L = $\overbrace{N(R)C(Ph)C(H)C(Ph)N}R$; L′ = $\overbrace{N(R)C(Ph)N}C(Ph)CHR$] (P.B. Hitchcock, M.F. Lappert and D.-S. Liu), 241

Dihydrogen
Kinetics and mechanism of H_2-hydrogenation of styrene catalyzed by $[RuCl(dppb)(\mu\text{-}Cl)]_2$ (dppb = 1,4-bis(diphenylphosphino)butane). Evidence for hydrogen transfer from a dinuclear molecular hydrogen species (A.M. Joshi, K.S. MacFarlane and B.R. James), 161

β-Diketinimates
Transformation of the bis(trimethylsilyl)methyl into a 1,3-diaza-allyl ligand. Synthesis and crystal structures of $[\overbrace{K\{N(R)C(Ar)N}C\text{-}(Ar)CHR\}(NCAr)]_2$ and $[\{UCl(\mu\text{-}Cl)(L)(NR)\}_2][UCl_2(L)(L')]_2$[R = $SiMe_3$; Ar = $C_6H_3Me_2$-2,5; L = $\overbrace{N(R)C(Ph)C(H)C(Ph)N}R$; L′ = $\overbrace{N(R)C(Ph)N}C(Ph)CHR$] (P.B. Hitchcock, M.F. Lappert and D.-S. Liu), 241

Dimers
New mono- and di-phosphido-bridged Pd^I dimers. Formation of tertiary dialkyl(allyl) phosphines from an allyl complex with a secondary phosphine (P. Leoni, M. Pasquali, T. Beringhelli, G. D'Alfonso and A.P. Minoja), 39

Dimethyl carbonate
Oxidative carbonylation of methanol to dimethyl carbonate (DMC): a new catalytic system (D. Delledonne, F. Rivetti and U. Romano), C15

Electrochemistry
Electronic interactions in organometallic dimers. An electrochemical approach (D. Osella, L. Milone, C. Nervi and M. Ravera), 1

Electronic configuration
A novel class of hexanuclear titanoxanes: synthesis, structure and electronic configuration (T. Carofiglio, C. Floriani, A. Roth, A. Sgamellotti, M. Rosi, A. Chiesi-Villa and C. Rizzoli), 141

Electronic interaction
Electronic interactions in organometallic dimers. An electrochemical approach (D. Osella, L. Milone, C. Nervi and M. Ravera), 1

ESCA
Anchoring rhodium(I) on benzoylthiourea-functionalized silica xerogels. Production of recyclable hydroformylation catalysts and the crystal structure of the model compound [Rh(cod)(Hbztu)Cl] (D. Cauzzi, M. Lanfranchi, G. Marzolini, G. Predieri, A. Tiripicchio, M. Costa and R. Zanoni), 115

Ferrocene
Structural and spectral characterization of novel charge-transfer salts of polyoxometalates and the cationic ferrocenyl donor (P.L. Veya and J.K. Kochi), C4

Fischer–Tropsch reaction
Vinyl-plus-vinyl coupling in rhodium complexes: formation of $[(C_5Me_5)RhBr(\eta^3$-*syn*-1-methylallyl)] by reaction of $[(C_5Me_5)RhBr_2(Me_2SO)]$ with vinylmagnesium bromide in homogeneous solution (Z.-Q. Wang, M.L. Turner, A.R. Kunicki and P.M. Maitlis), C11

Gold
Synthesis of cluster compounds by photolysis of azido complexes (J. Strähle), 15

Group 1
Novel, CO_2-promoted synthesis of anhydrous alkylammonium tetraphenylborates: a study on their reactivity as intra- and inter-molecular proton-transfer agents (M. Aresta and E. Quaranta), 211

Hydrazone complex
The different behaviour of the di-2-pyridylketone 2-thenoylhydrazone in two organotin compounds. Synthesis, X-ray structure and biological activity (M. Carcelli, C. Pelizzi, G. Pelizzi, P. Mazza and F. Zani), 55

Hydrazones
Synthesis, X-ray structure and reactivity of cyclopalladated complexes of hydrazones of 1*H*-indole-3-carboxaldehyde (S. Tol-

lari, G. Palmisano, F. Demartin, M. Grassi, S. Magnaghi and S. Cenini), 79

Hydride

Cis-(hydrido)hydrocarbylplatinum(IV) complexes as intermediates in the Pt^{II}–C bond breaking (V. De Felice, A. De Renzi, A. Panunzi and D. Tesauro), C13

Hydroformylation

A new cyclopentadiene and its use as a ligand for catalytically active rhodium complexes (M. Costa, F.S. Dias, G.P. Chiusoli and G.L. Gazzola), 47

Anchoring rhodium(I) on benzoylthiourea-functionalized silica xerogels. Production of recyclable hydroformylation catalysts and the crystal structure of the model compound [Rh(cod)(Hbztu)Cl] (D. Cauzzi, M. Lanfranchi, G. Marzolini, G. Predieri, A. Tiripicchio, M. Costa and R. Zanoni), 115

Hydroformylation of some functionalized olefins catalyzed by rhodium(I) complexes with pydiphos and its *P*-oxide (C. Basoli, C. Botteghi, M.A. Cabras, G. Chelucci and M. Marchetti), C20

Hydrogenation

Kinetics and mechanism of H_2-hydrogenation of styrene catalyzed by $[RuCl(dppb)(\mu\text{-}Cl)]_2$ (dppb = 1,4-bis(diphenylphosphino)butane). Evidence for hydrogen transfer from a dinuclear molecular hydrogen species (A.M. Joshi, K.S. MacFarlane and B.R. James), 161

Water-soluble organometallic compounds. 5. The regio-selective catalytic hydrogenation of unsaturated aldehydes to saturated aldehydes in an aqueous two-phase solvent system using 1,3,5-triaza-7-phosphaadamantane complexes of rhodium (D.J. Darensbourg, N.W. Stafford, F. Joó and J.H. Reibenspies), 99

Hydrogen bond

Novel, CO_2-promoted synthesis of anhydrous alkylammonium tetraphenylborates: a study on their reactivity as intra- and inter-molecular proton-transfer agents (M. Aresta and E. Quaranta), 211

Iminoacyl

Oxidative η^2-iminoacyl formation by reaction of amidozirconocene complexes with tris(pentafluorophenyl)borane (B. Temme and G. Erker), 177

Insertion

New mono- and di-phosphido-bridged Pd^I dimers. Formation of tertiary dialkyl(allyl) phosphines from an allyl complex with a secondary phosphine (P. Leoni, M. Pasquali, T. Beringhelli, G. D'Alfonso and A.P. Minoja), 39

Iridium

Chemoselective reduction of α,β-unsaturated ketones catalyzed by transition metal complexes with polydentate ligands (C. Bianchini, M. Peruzzini, E. Farnetti, J. Kašpar and M. Graziani), 91

Octahedral iridium carbonyl clusters. Synthesis, characterization and solid state structure of the nitrosyl cluster $[Ir_6(CO)_{11}(\mu\text{-}CO)_3NO]^-$ (R. Della Pergola, L. Garlaschelli, M. Manassero and N. Masciocchi), 199

Surface organometallic chemistry: the easy conversion of $[Ir_6(CO)_{16}]$ supported on silica into $[Ir_4(CO)_{12}]$ (D. Roberto, E. Cariati, R. Psaro and R. Ugo), 109

Iron

Chemoselective reduction of α,β-unsaturated ketones catalyzed by transition metal complexes with polydentate ligands (C. Bianchini, M. Peruzzini, E. Farnetti, J. Kašpar and M. Graziani), 91

Dialkylaminophosphorus metal carbonyls. 12. Insertion of phosphorus, sulfur, and selenium into the $(^iPr_2NP)_2Fe_2(CO)_6$ unit and a novel product from the reaction of $(^iPr_2NP)_2COFe_2(CO)_6$ with $PhBCl_2$ (Y.W. Li, M.G. Newton and R.B. King), 63

Synthesis of dinuclear iron and ruthenium aminoalkylidene complexes and the molecular structure of the novel *cis*-$[Ru_2(CO)_2(Cp)_2\{\mu\text{-}C(CN)N(Me)Bz\}_2]$(Cp = $\eta\text{-}C_5H_5$; Bz = CH_2Ph) (V.G. Albano, L. Busetto, L. Carlucci, M.C. Cassani, M. Monari and V. Zanotti), 133

Isocyanate

The geometry of SiOCN and SiNCO linkages. The crystal structures of $(Me_3Si)_2(Ph_2MeSi)CSiMe_2OCN$ and $(PhMe_2Si)_3CSiMe_2NCO$ (S.S. Al-Juaid, A.A.K. Al-Nasr, G.A. Ayoko, C. Eaborn and P. Hitchcock), 155

Isocyanide

Synthesis of dinuclear iron and ruthenium aminoalkylidene complexes and the molecular structure of the novel *cis*-$[Ru_2(CO)_2(Cp)_2\{\mu\text{-}C(CN)N(Me)Bz\}_2]$(Cp = $\eta\text{-}C_5H_5$; Bz = CH_2Ph) (V.G. Albano, L. Busetto, L. Carlucci, M.C. Cassani, M. Monari and V. Zanotti), 133

Kinetics

Kinetics and mechanism of H_2-hydrogenation of styrene catalyzed by $[RuCl(dppb)(\mu\text{-}Cl)]_2$ (dppb = 1,4-bis(diphenylphosphino)butane). Evidence for hydrogen transfer from a dinuclear molecular hydrogen species (A.M. Joshi, K.S. MacFarlane and B.R. James), 161

The role of SO_2 as a ligand to mediate associative substitution reactions of some 18-electron molybdenum complexes (J.K. Shen, F. Basolo and G.J. Kubas), C1

Lactones

Preparation of α-vinylidene-γ-lactones by palladium-catalyzed carbonylation of 5-hydroxy-2-alkynyl methyl carbonates under mild conditions (T. Mandai, Y. Tsujiguchi, S. Matsuoka, S. Saito and J. Tsuji), 127

Laser-flash photolysis

Structural and spectral characterization of novel charge-transfer salts of polyoxometalates and the cationic ferrocenyl donor (P.L. Veya and J.K. Kochi), C4

Ligand substitution

The role of SO_2 as a ligand to mediate associative substitution reactions of some 18-electron molybdenum complexes (J.K. Shen, F. Basolo and G.J. Kubas), C1

Macrocyclic ligands

Structures of polymetallaorganosiloxanolates — a novel class of organosilicon metal complexes (Yu.T. Struchkov and S.V. Lindeman), 9

Mechanism

The role of SO_2 as a ligand to mediate associative substitution reactions of some 18-electron molybdenum complexes (J.K. Shen, F. Basolo and G.J. Kubas), C1

Metallation

Synthesis, X-ray structure and reactivity of cyclopalladated complexes of hydrazones of 1*H*-indole-3-carboxaldehyde (S. Tollari, G. Palmisano, F. Demartin, M. Grassi, S. Magnaghi and S. Cenini), 79

Metal–metal bonds

New mono- and di-phosphido-bridged Pd^I dimers. Formation of tertiary dialkyl(allyl) phosphines from an allyl complex with a secondary phosphine (P. Leoni, M. Pasquali, T. Beringhelli, G. D'Alfonso and A.P. Minoja), 39

Metal organosiloxanolates

Structures of polymetallaorganosiloxanolates — a novel class of

organosilicon metal complexes (Yu.T. Struchkov and S.V. Lindeman), 9
Methacrylate monomers
Synthesis of methacrylate monomers from alkynes and arene-alkenylruthenium(II) catalyst (O. Lavastre and P.H. Dixneuf), C9
Methanol
Oxidative carbonylation of methanol to dimethyl carbonate (DMC): a new catalytic system (D. Delledonne, F. Rivetti and U. Romano), C15
Molecular structure
Structures of polymetallaorganosiloxanolates — a novel class of organosilicon metal complexes (Yu.T. Struchkov and S.V. Lindeman), 9
Molybdenum
Instability of 15-electron Cp^*MoCl_2L (L = 2-electron donor) derivatives. X-ray structure of $Cp^*MoCl_2(PMe_2Ph)_2$ and $[Cp^*MoCl_2(PMe_2Ph)_2]AlCl_4$ (F. Abugideiri, D.W. Keogh, H.-B. Kraatz, W. Pearson and R. Poli), 29
The role of SO_2 as a ligand to mediate associative substitution reactions of some 18-electron molybdenum complexes (J.K. Shen, F. Basolo and G.J. Kubas), C1

Nickel
A novel enantiopure proline-based organonickel(III) halide monocation with a pentadentate C, N_2, O_2-bonded bis(*ortho*-chelating) aryldiamine ligand (L.A. Van de Kuil, Y.S.J. Veldhuizen, D.M. Grove, J.W. Zwikker, L.W. Jenneskens, W. Drenth, W.J.J. Smeets, A.L. Spek and G. Van Koten), 191
Nitrosyl
Octahedral iridium carbonyl clusters. Synthesis, characterization and solid state structure of the nitrosyl cluster $[Ir_6(CO)_{11}(\mu\text{-}CO)_3NO]^-$ (R. Della Pergola, L. Garlaschelli, M. Manassero and N. Masciocchi), 199
N–P ligands
Hydroformylation of some functionalized olefins catalyzed by rhodium(I) complexes with pydiphos and its *P*-oxide (C. Basoli, C. Botteghi, M.A. Cabras, G. Chelucci and M. Marchetti), C20
Nucleophile
The reactions of tridentate cationic palladium(II) complexes with olefins and nucleophiles (H.-B. Kraatz and D. Milstein), 223

Octahedron
Octahedral iridium carbonyl clusters. Synthesis, characterization and solid state structure of the nitrosyl cluster $[Ir_6(CO)_{11}(\mu\text{-}CO)_3NO]^-$ (R. Della Pergola, L. Garlaschelli, M. Manassero and N. Masciocchi), 199
Olefin complexes
The reactions of tridentate cationic palladium(II) complexes with olefins and nucleophiles (H.-B. Kraatz and D. Milstein), 223
Olefin isomerization
Rhodium(III) complexes of (*EEE*)-1,5,9-Cyclododecatriene. Syntheses, structures and absolute configurations of derivatives of *catena*-poly-[μ-dichloro-(1,2,12-η)-1,5,8 cyclododecatrienyl-rhodium] (G. Paiaro, L. Pandolfo, P. Ganis, G. Valle and S.D. Fioretto), 249
Osmium
Chemoselective reduction of α,β-unsaturated ketones catalyzed by transition metal complexes with polydentate ligands (C. Bianchini, M. Peruzzini, E. Farnetti, J. Kašpar and M. Graziani), 91
Donor–acceptor-based vinylidene and σ-acetylide complexes of ruthenium and osmium (A.J. Hodge, S.L. Ingham, A.K. Kakkar, M.S. Khan, J. Lewis, N.J. Long, D.G. Parker and P.R. Raithby), 205
Oxidative addition
Cis-(hydrido)hydrocarbylplatinum(IV) complexes as intermediates in the Pt^{II}–C bond breaking (V. De Felice, A. De Renzi, A. Panunzi and D. Tesauro), C13

Palladium
Determination of the absolute configurations of the epimers of the P-chiral phosphine $Ph_2PCH_2CH_2P^*Ph$(*L*-(–)-menthyl) by use of two-dimensional NMR spectroscopy in combination with a palladium(II) "reporter complex" (Q. Jiang, H. Rüegger and L.M. Venanzi), 233
New mono- and di-phosphido-bridged Pd^I dimers. Formation of tertiary dialkyl(allyl) phosphines from an allyl complex with a secondary phosphine (P. Leoni, M. Pasquali, T. Beringhelli, G. D'Alfonso and A.P. Minoja), 39
Pd_4 Clusters: the sensitivity of the cluster metal core geometry to the surrounding ligands (I.I. Moiseev), 183
Preparation of α-vinylidene-γ-lactones by palladium-catalyzed carbonylation of 5-hydroxy-2-alkynyl methyl carbonates under mild conditions (T. Mandai, Y. Tsujiguchi, S. Matsuoka, S. Saito and J. Tsuji), 127
Synthesis, X-ray structure and reactivity of cyclopalladated complexes of hydrazones of 1*H*-indole-3-carboxaldehyde (S. Tollari, G. Palmisano, F. Demartin, M. Grassi, S. Magnaghi and S. Cenini), 79
The reactions of tridentate cationic palladium(II) complexes with olefins and nucleophiles (H.-B. Kraatz and D. Milstein), 223
Phase transfer catalysis
Catalytic carbonylation of benzylic and allylic bromides by a rhodium zwitterionic complex under phase transfer catalysis conditions (S. Amaratunga and H. Alper), 25
Phosphide-bridges
New mono- and di-phosphido-bridged Pd^I dimers. Formation of tertiary dialkyl(allyl) phosphines from an allyl complex with a secondary phosphine (P. Leoni, M. Pasquali, T. Beringhelli, G. D'Alfonso and A.P. Minoja), 39
Phosphines
Reductive carbonylations reactions of primary phosphine mono-η-cyclopentadienyltungsten (V) compounds (M.L.H. Green, X.M. Morise, A.H. Hamilton and A.N. Chernega), 73
Phosphinoester
Vinylidene transition metal complexes. XXXIV. The preparation and structure of neutral vinylidene and allenylidene ruthenium(II) compounds of the half-sandwich type containing $^iPr_2PCH_2CO_2Me$ as supporting ligand (T. Braun, P. Steinert and H. Werner), 169
Phosphorus
Dialkylaminophosphorus metal carbonyls. 12. Insertion of phosphorus, sulfur, and selenium into the $(^iPr_2NP)_2Fe_2(CO)_6$ unit and a novel product from the reaction of $(^iPr_2NP)_2COFe_2(CO)_6$ with $PhBCl_2$ (Y.W. Li, M.G. Newton and R.B. King), 63
Photochemistry
Synthesis of cluster compounds by photolysis of azido complexes (J. Strähle), 15
Platinum
Cis-(hydrido)hydrocarbylplatinum(IV) complexes as intermediates in the Pt^{II}–C bond breaking (V. De Felice, A. De Renzi, A. Panunzi and D. Tesauro), C13
Polyfunctional phosphines
Ruthenium carbonyl complexes with polyfunctional phosphine ligands (U. Bodensieck, H. Vahrenkamp, G. Rheinwald and H. Stoeckli-Evans), 85

Polyoxometalate
Structural and spectral characterization of novel charge-transfer salts of polyoxometalates and the cationic ferrocenyl donor (P.L. Veya and J.K. Kochi), C4
Proline
A novel enantiopure proline-based organonickel(III) halide monocation with a pentadentate C, N_2, O_2-bonded bis(*ortho*-chelating) aryldiamine ligand (L.A. Van de Kuil, Y.S.J. Veldhuizen, D.M. Grove, J.W. Zwikker, L.W. Jenneskens, W. Drenth, W.J.J. Smeets, A.L. Spek and G. Van Koten), 191
Propargylic carbonates
Preparation of α-vinylidene-γ-lactones by palladium-catalyzed carbonylation of 5-hydroxy-2-alkynyl methyl carbonates under mild conditions (T. Mandai, Y. Tsujiguchi, S. Matsuoka, S. Saito and J. Tsuji), 127
Pyridylphosphines
Hydroformylation of some functionalized olefins catalyzed by rhodium(I) complexes with pydiphos and its *P*-oxide (C. Basoli, C. Botteghi, M.A. Cabras, G. Chelucci and M. Marchetti), C20

Reductive elimination
Cis-(hydrido)hydrocarbylplatinum(IV) complexes as intermediates in the Pt^{II}–C bond breaking (V. De Felice, A. De Renzi, A. Panunzi and D. Tesauro), C13
Rhodium
A new cyclopentadiene and its use as a ligand for catalytically active rhodium complexes (M. Costa, F.S. Dias, G.P. Chiusoli and G.L. Gazzola), 47
Anchoring rhodium(I) on benzoylthiourea-functionalized silica xerogels. Production of recyclable hydroformylation catalysts and the crystal structure of the model compound [Rh(cod)(Hbztu)Cl] (D. Cauzzi, M. Lanfranchi, G. Marzolini, G. Predieri, A. Tiripicchio, M. Costa and R. Zanoni), 115
Catalytic carbonylation of benzylic and allylic bromides by a rhodium zwitterionic complex under phase transfer catalysis conditions (S. Amaratunga and H. Alper), 25
Hydroformylation of some functionalized olefins catalyzed by rhodium(I) complexes with pydiphos and its *P*-oxide (C. Basoli, C. Botteghi, M.A. Cabras, G. Chelucci and M. Marchetti), C20
Rhodium(III) complexes of (*EEE*)-1,5,9-Cyclododecatriene. Syntheses, structures and absolute configurations of derivatives of *catena*-poly-[μ-dichloro-(1,2,12-η)-1,5,8 cyclododecatrienyl-rhodium] (G. Paiaro, L. Pandolfo, P. Ganis, G. Valle and S.D. Fioretto), 249
Vinyl-plus-vinyl coupling in rhodium complexes: formation of [(C_5Me_5)RhBr(η^3-*syn*-1-methylallyl)] by reaction of [(C_5Me_5)-$RhBr_2(Me_2SO)$] with vinylmagnesium bromide in homogeneous solution (Z.-Q. Wang, M.L. Turner, A.R. Kunicki and P.M. Maitlis), C11
Water-soluble organometallic compounds. 5. The regio-selective catalytic hydrogenation of unsaturated aldehydes to saturated aldehydes in an aqueous two-phase solvent system using 1,3,5-triaza-7-phosphaadamantane complexes of rhodium (D.J. Darensbourg, N.W. Stafford, F. Joó and J.H. Reibenspies), 99
Ruthenium
Chemoselective reduction of α,β-unsaturated ketones catalyzed by transition metal complexes with polydentate ligands (C. Bianchini, M. Peruzzini, E. Farnetti, J. Kašpar and M. Graziani), 91
Donor–acceptor-based vinylidene and σ-acetylide complexes of ruthenium and osmium (A.J. Hodge, S.L. Ingham, A.K. Kakkar, M.S. Khan, J. Lewis, N.J. Long, D.G. Parker and P.R. Raithby), 205
Electronic interactions in organometallic dimers. An electrochemical approach (D. Osella, L. Milone, C. Nervi and M. Ravera), 1
Kinetics and mechanism of H_2-hydrogenation of styrene catalyzed by $[RuCl(dppb)(\mu\text{-}Cl)]_2$ (dppb = 1,4-bis(diphenylphosphino)butane). Evidence for hydrogen transfer from a dinuclear molecular hydrogen species (A.M. Joshi, K.S. MacFarlane and B.R. James), 161
Ruthenium carbonyl complexes with polyfunctional phosphine ligands (U. Bodensieck, H. Vahrenkamp, G. Rheinwald and H. Stoeckli-Evans), 85
Synthesis of dinuclear iron and ruthenium aminoalkylidene complexes and the molecular structure of the novel *cis*-$[Ru_2(CO)_2(Cp)_2\{\mu\text{-}C(CN)N(Me)Bz\}_2]$(Cp = η-C_5H_5; Bz = CH_2Ph) (V.G. Albano, L. Busetto, L. Carlucci, M.C. Cassani, M. Monari and V. Zanotti), 133
Synthesis of methacrylate monomers from alkynes and arene-alkenylruthenium(II) catalyst (O. Lavastre and P.H. Dixneuf), C9
Vinylidene transition metal complexes. XXXIV. The preparation and structure of neutral vinylidene and allenylidene ruthenium(II) compounds of the half-sandwich type containing $^iPr_2PCH_2CO_2Me$ as supporting ligand (T. Braun, P. Steinert and H. Werner), 169

Selective reduction
Chemoselective reduction of α,β-unsaturated ketones catalyzed by transition metal complexes with polydentate ligands (C. Bianchini, M. Peruzzini, E. Farnetti, J. Kašpar and M. Graziani), 91
Selenium
Dialkylaminophosphorus metal carbonyls. 12. Insertion of phosphorus, sulfur, and selenium into the $(^iPr_2NP)_2Fe_2(CO)_6$ unit and a novel product from the reaction of $(^iPr_2NP)_2COFe_2$-$(CO)_6$ with $PhBCl_2$ (Y.W. Li, M.G. Newton and R.B. King), 63
Silicon
The geometry of SiOCN and SiNCO linkages. The crystal structures of $(Me_3Si)_2(Ph_2MeSi)CSiMe_2OCN$ and $(PhMe_2Si)_3CSi$-Me_2NCO (S.S. Al-Juaid, A.A.K. Al-Nasr, G.A. Ayoko, C. Eaborn and P. Hitchcock), 155
Transformation of the bis(trimethylsilyl)methyl into a 1,3-diaza-allyl ligand. Synthesis and crystal structures of $[K\{N(R)C(Ar)NC\text{-}(Ar)CHR\}(NCAr)]_2$ and $[\{UCl(\mu\text{-}Cl)(L)(NR)\}_2][UCl_2(L)(L')]_2$[R = $SiMe_3$; Ar = $C_6H_3Me_2$-2,5; L = N(R)C(Ph)C(H)C(Ph)NR; L′ = N(R)C(Ph)NC(Ph)CHR] (P.B. Hitchcock, M.F. Lappert and D.-S. Liu), 241
Solution structure
Determination of the absolute configurations of the epimers of the P-chiral phosphine $Ph_2PCH_2CH_2P^*Ph$(*L*-(−)-menthyl) by use of two-dimensional NMR spectroscopy in combination with a palladium(II) "reporter complex" (Q. Jiang, H. Rüegger and L.M. Venanzi), 233
Spectral CT transients
Structural and spectral characterization of novel charge-transfer salts of polyoxometalates and the cationic ferrocenyl donor (P.L. Veya and J.K. Kochi), C4
Styrene
Kinetics and mechanism of H_2-hydrogenation of styrene catalyzed by $[RuCl(dppb)(\mu\text{-}Cl)]_2$ (dppb = 1,4-bis(diphenylphosphino)butane). Evidence for hydrogen transfer from a dinuclear molecular hydrogen species (A.M. Joshi, K.S. MacFarlane and B.R. James), 161

Sulfur
Dialkylaminophosphorus metal carbonyls. 12. Insertion of phosphorus, sulfur, and selenium into the $(^iPr_2NP)_2Fe_2(CO)_6$ unit and a novel product from the reaction of $(^iPr_2NP)_2COFe_2(CO)_6$ with $PhBCl_2$ (Y.W. Li, M.G. Newton and R.B. King), 63
Sulfur dioxide
The role of SO_2 as a ligand to mediate associative substitution reactions of some 18-electron molybdenum complexes (J.K. Shen, F. Basolo and G.J. Kubas), C1
Supported catalyst
Anchoring rhodium(I) on benzoylthiourea-functionalized silica xerogels. Production of recyclable hydroformylation catalysts and the crystal structure of the model compound [Rh(cod)(Hbztu)Cl] (D. Cauzzi, M. Lanfranchi, G. Marzolini, G. Predieri, A. Tiripicchio, M. Costa and R. Zanoni), 115
Supported clusters
Surface organometallic chemistry: the easy conversion of $[Ir_6(CO)_{16}]$ supported on silica into $[Ir_4(CO)_{12}]$ (D. Roberto, E. Cariati, R. Psaro and R. Ugo), 109
Synthesis
Rhodium(III) complexes of (*EEE*)-1,5,9-Cyclododecatriene. Syntheses, structures and absolute configurations of derivatives of *catena*-poly-[μ-dichloro-(1,2,12-η)-1,5,8 cyclododecatrienylrhodium] (G. Paiaro, L. Pandolfo, P. Ganis, G. Valle and S.D. Fioretto), 249
Synthesis of methacrylate monomers from alkynes and arene-alkenylruthenium(II) catalyst (O. Lavastre and P.H. Dixneuf), C9

Tetraphenylborate
Novel, CO_2-promoted synthesis of anhydrous alkylammonium tetraphenylborates: a study on their reactivity as intra- and inter-molecular proton-transfer agents (M. Aresta and E. Quaranta), 211
Time-resolved spectrum
Structural and spectral characterization of novel charge-transfer salts of polyoxometalates and the cationic ferrocenyl donor (P.L. Veya and J.K. Kochi), C4
Tin
The different behaviour of the di-2-pyridylketone 2-thenoylhydrazone in two organotin compounds. Synthesis, X-ray structure and biological activity (M. Carcelli, C. Pelizzi, G. Pelizzi, P. Mazza and F. Zani), 55
Titanium
A novel class of hexanuclear titanoxanes: synthesis, structure and electronic configuration (T. Carofiglio, C. Floriani, A. Roth, A. Sgamellotti, M. Rosi, A. Chiesi-Villa and C. Rizzoli), 141
Titanoxanes
A novel class of hexanuclear titanoxanes: synthesis, structure and electronic configuration (T. Carofiglio, C. Floriani, A. Roth, A. Sgamellotti, M. Rosi, A. Chiesi-Villa and C. Rizzoli), 141
Transition metals
Synthesis of cluster compounds by photolysis of azido complexes (J. Strähle), 15
Tungsten
Reductive carbonylations reactions of primary phosphine mono-η-cyclopentadienyltungsten (V) compounds (M.L.H. Green, X.M. Morise, A.H. Hamilton and A.N. Chernega), 73
Two-dimensional NMR
Determination of the absolute configurations of the epimers of the P-chiral phosphine $Ph_2PCH_2CH_2P^*Ph$(*L*-(–)-menthyl) by use of two-dimensional NMR spectroscopy in combination with a palladium(II) "reporter complex" (Q. Jiang, H. Rüegger and L.M. Venanzi), 233
α,β-unsaturated ketones
Chemoselective reduction of α,β-unsaturated ketones catalyzed by transition metal complexes with polydentate ligands (C. Bianchini, M. Peruzzini, E. Farnetti, J. Kašpar and M. Graziani), 91
Uranium
Transformation of the bis(trimethylsilyl)methyl into a 1,3-diaza-allyl ligand. Synthesis and crystal structures of $[\overbrace{K\{N(R)C(Ar)}\overbrace{NC}\text{-}(Ar)CHR\}(NCAr)]_2$ and $[\{UCl(\mu\text{-}Cl)(L)\overbrace{(NR)}\}_2][UCl_2(L)(L')]$[R = $SiMe_3$; Ar = $C_6H_3Me_2$-2,5; L = $\overbrace{N(R)C(Ph)C(H)C(Ph)NR}$; L' = $\overbrace{N(R)C(Ph)NC(Ph)CHR}$] (P.B. Hitchcock, M.F. Lappert and D.-S. Liu), 241

Vinyl
Vinyl-plus-vinyl coupling in rhodium complexes: formation of $[(C_5Me_5)RhBr(\eta^3$-*syn*-1-methylallyl)] by reaction of $[(C_5Me_5)RhBr_2(Me_2SO)]$ with vinylmagnesium bromide in homogeneous solution (Z.-Q. Wang, M.L. Turner, A.R. Kunicki and P.M. Maitlis), C11
Vinylidene
Donor–acceptor-based vinylidene and σ-acetylide complexes of ruthenium and osmium (A.J. Hodge, S.L. Ingham, A.K. Kakkar, M.S. Khan, J. Lewis, N.J. Long, D.G. Parker and P.R. Raithby), 205
Vinylidene transition metal complexes. XXXIV. The preparation and structure of neutral vinylidene and allenylidene ruthenium(II) compounds of the half-sandwich type containing $^iPr_2PCH_2CO_2Me$ as supporting ligand (T. Braun, P. Steinert and H. Werner), 169

Xerogel
Anchoring rhodium(I) on benzoylthiourea-functionalized silica xerogels. Production of recyclable hydroformylation catalysts and the crystal structure of the model compound [Rh(cod)(Hbztu)Cl] (D. Cauzzi, M. Lanfranchi, G. Marzolini, G. Predieri, A. Tiripicchio, M. Costa and R. Zanoni), 115
X-ray diffraction
Reductive carbonylations reactions of primary phosphine mono-η-cyclopentadienyltungsten (V) compounds (M.L.H. Green, X.M. Morise, A.H. Hamilton and A.N. Chernega), 73
Structures of polymetallaorganosiloxanolates — a novel class of organosilicon metal complexes (Yu.T. Struchkov and S.V. Lindeman), 9
Synthesis of dinuclear iron and ruthenium aminoalkylidene complexes and the molecular structure of the novel *cis*-$[Ru_2(CO)_2(Cp)_2\{\mu\text{-}C(CN)N(Me)Bz\}_2]$[Cp = η-C_5H_5; Bz = CH_2Ph) (V.G. Albano, L. Busetto, L. Carlucci, M.C. Cassani, M. Monari and V. Zanotti), 133
X-ray structure
Synthesis, X-ray structure and reactivity of cyclopalladated complexes of hydrazones of 1*H*-indole-3-carboxaldehyde (S. Tollari, G. Palmisano, F. Demartin, M. Grassi, S. Magnaghi and S. Cenini), 79
The different behaviour of the di-2-pyridylketone 2-thenoylhydrazone in two organotin compounds. Synthesis, X-ray structure and biological activity (M. Carcelli, C. Pelizzi, G. Pelizzi, P. Mazza and F. Zani), 55
X-ray structure η^3-allylic complexes
Rhodium(III) complexes of (*EEE*)-1,5,9-Cyclododecatriene. Syntheses, structures and absolute configurations of derivatives of *catena*-poly-[μ-dichloro-(1,2,12-η)-1,5,8 cyclododecatrienylrhodium] (G. Paiaro, L. Pandolfo, P. Ganis, G. Valle and S.D. Fioretto), 249

Zirconocene
Oxidative η^2-iminoacyl formation by reaction of amidozirconocene complexes with tris(pentafluorophenyl)borane (B. Temme and G. Erker), 177

Zwitterionic complex
Catalytic carbonylation of benzylic and allylic bromides by a rhodium zwitterionic complex under phase transfer catalysis conditions (S. Amaratunga and H. Alper), 25